

STATEMENT UNDER 37 CFR 3.73(b)Applicant/Patent Owner: John Bryan Jones, Michael Dickman and Richard C. LloydApplication No./Patent No.: 10/791,093 Filed/Issue Date: March 1, 2004Entitled: Chemically Modified Mutant Serine Hydrolases Show Improved Catalytic Activity and Chiral SelectivityGenencor International, Inc., a Delaware Corporation
(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☐ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded on _____ in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

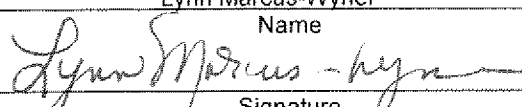
- B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: J. Bryan Jones To: Genencor International, Inc. and J. Bryan Jones
The document was recorded in the United States Patent and Trademark Office at Reel 009785, Frame(s) 0991-0994 on February 26, 1999, or for which a copy thereof is attached.
2. From: Michael Dickman and J. Bryan Jones To: Genencor International, Inc. and J. Bryan Jones
The document was recorded in the United States Patent and Trademark Office at Reel 009914, Frame(s) 0650-0653 on April 27, 1999, or for which a copy thereof is attached.
3. From: Michael Dickman and J. Bryan Jones To: Genencor international, Inc. and J. Bryan Jones
The document was recorded in the United States Patent and Trademark Office at Reel 010289, Frame(s) 0422-0428 on August 30, 1999, or for which a copy thereof is attached.
4. From: Genencor International, Inc., J. Bryan Jones and Richard C. Lloyd To: The Governing Council of the University of Toronto
The document was recorded in the United States Patent and Trademark Office at Reel 012820, Frame 0894 on April 15, 2002, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

<u>Lynn Marcus-Wyner</u> Name  Signature Senior Director, Intellectual Assets USA Danisco A/S for Danisco US Inc., Genencor Division Title	<u>September 25, 2007</u> Date <u>650-846-7620</u> Telephone Number
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

MAY 19, 1999

PTAS

NIXON, HARGRAVE, DEVANS & DOYLE LLP
MICHAEL L. GOLDMAN, ESQ.
CLINTON SQUARE
P.O. BOX 1051
ROCHESTER, NY 14603



100979132A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/26/1999

REEL/FRAME: 9785/0991
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
JONES, J. BRYAN

DOC DATE: 01/21/1999

ASSIGNEE:
GENENCOR INTERNATIONAL, INC.
1870 SOUTH WINTON ROAD
3 CAMBRIDGE PLACE
ROCHESTER, NEW YORK 14618

ASSIGNEE:
JONES, J. BRYAN
1275 SEAFORTH CRESCENT
RR 3 LAKEFIELD
ONTARIO, CANADA K0L 2H0

SERIAL NUMBER: 60107758
PATENT NUMBER:

FILING DATE: 11/10/1998
ISSUE DATE:

ENTERED
Nixon Peabody LLP

AUG - 9 1999

FILE 200649/1080
DKT all

9785/0991 PAGE 2

SHIRLIE SIMON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

03-03-1999



100979132

PATENTS ONLY

VER SHEET

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof:

1. Name of conveying party(ies):

J. Bryan Jones

MID
2-26-99

2. Name and address of receiving party(ies):

Genencor International, Inc.
4 Cambridge Place
1870 South Winton Road
Rochester, New York 14618

and

J. Bryan Jones
1275 Seaforth Crescent
RR 3 Lakefield
Ontario, Canada K0L 2H0

3. Nature of conveyance:

- ☒ Assignment
☐ Merger
☐ Security Agreement
☐ Change of Name
☐ Other: _____

Execution Date(s):

1st (sole) Inventor: January 21, 1999
2nd Inventor:
3rd Inventor:
4th Inventor:

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date(s) of the application is(are):

1st (sole) Inventor:
2nd Inventor:
3rd Inventor:
4th Inventor:

A. Patent Application No.(s): 60/107,758

B. Patent No.(s):

5. Name and address of party to whom correspondence concerning document should be mailed:

Michael L. Goldman, Esq.
Nixon, Hargrave, Devans & Doyle LLP
Clinton Square
P.O. Box 1051
Rochester, New York 14603

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

☐ Previously paid (see original transmittal)

☒ A check in the amount of \$40.00 is enclosed.

8. Deposit Account Number: 14-1138

☐ Charge total fee to account.

☒ Charge any additional fees to account.

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Date: February 22, 1999



Michael L. Goldman

[Total number of pages including cover sheet, attachments and document: 4]

Certificate of Mailing - 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner of Patents

ASSIGNMENT

WHEREAS, **J. Bryan Jones**, residing at 1275 Seaforth Crescent, RR 3 Lakefield, Ontario KOL 2H0 has invented a new and useful invention in **CHEMICALLY MODIFIED MUTANTS OF SUBTILISIN *BACILLUS LENTUS* CATALYZE TRANSESTERIFICATION REACTIONS BETTER THAN WILD TYPE** and an application for United States Letters Patent was filed on **November 10, 1998**, Serial No. **60/107,758**; and

WHEREAS, **Genencor International, Inc.**, a corporation organized and existing under and by virtue of the laws of the State of Delaware, having its principal place of business at 4 Cambridge Place, 1870 South Winton Road, Rochester, New York, and **J. Bryan Jones**, residing at 1275 Seaforth Crescent, RR 3 Lakefield, Ontario, Canada KOL 2H0, are desirous of acquiring an interest in and to said invention, and in the Letters Patents to be obtained therefor;

NOW, THEREFORE, be it known by all whom it may concern:

That for good and valuable consideration the receipt of which is hereby acknowledged, the said inventor has and does hereby sell, assign, transfer and set over unto the said Genencor International, Inc. and J. Bryan Jones, their successors and assigns, jointly the full and exclusive right, title and interest, including all rights under the Paris Convention for the Protection of Industrial Property, in and to said invention, and in and to any and all Letters Patents to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but for, to and in all other countries, and it has been and is hereby authorized and requested that the appropriate government agencies issue said Letters Patents jointly to said Genencor International, Inc. and J. Bryan Jones in accordance with this Assignment.

Said Inventor hereby covenants and agrees to cooperate with Genencor International, Inc. and J. Bryan Jones to enable said Genencor International, Inc. and J. Bryan Jones to enjoy to the fullest extent the right, title and interest herein conveyed in the United states and foreign countries. Such cooperation by said Inventor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers and other assistance, all to the extent deemed necessary or desirable by said Genencor International, Inc. and J. Bryan Jones for (a) perfecting the right, title and interest herein conveyed, (b) prosecuting any of said applications, (c) filing and prosecuting applications for reissuance of any said patents, (d) interference or other priority proceedings involving said invention, and (e) legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions, provided, however, that the expense incurred by said Inventor in providing such cooperation shall be paid for by said Genencor International, Inc. and J. Bryan Jones.

The terms and covenants of this Assignment shall inure jointly to the benefit of said Genencor International, Inc. and J. Bryan Jones, their successors, assigns and other legal representatives, and shall be binding upon said Inventor, his respective heirs, legal representatives and assigns.

Said Inventor hereby warrants and represents that he has not entered and will not enter into any assignment, contract or understanding in conflict herewith.


IN WITNESS WHEREOF I undersign as follows:


J. Bryan Jones

Province
STATE OF ONTARIO)
COUNTY OF YORK)

On JANUARY 21, 1998⁹⁰⁴⁷, before me, J. BRYAN JONES,
Notary Public, personally appeared **J. Bryan Jones**, proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same in his authorized capacity for the purposes set forth therein.

Witness my hand and official seal.



JOHN GERARD DIMOND, Notary Public,
Municipality of Metropolitan Toronto, limited
to the attestation of instruments and the
taking of affidavits, while associated with
the University of Toronto.
Expires March 22, 2000.



7645
UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

JANUARY 04, 2000

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NIXON, HARGRAVE, DEVANS ET AL.
MICHAEL L. GOLDMAN
P.O. BOX 1051
ROCHESTER, NY 14603



101204841A

**CORRECTED
NOTICE**

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/27/1999

REEL/FRAME: 009914/0650
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
DICKMAN, MICHAEL

DOC DATE: 03/17/1999

ASSIGNOR:
JONES, J. BRYAN

DOC DATE: 03/15/1999

ASSIGNEE:
GENECOR INTERNATIONAL, INC.
1870 SOUTH WINTON ROAD
4 CAMBRIDGE PLACE
ROCHESTER, NEW YORK 14618

ASSIGNEE:
J. BRYAN JONES
1275 SEAFORTH CRESCENT
RR 3 LAKEFIELD
ONTARIO K0L 2H0, CANADA

SERIAL NUMBER: 60113061
PATENT NUMBER:

FILING DATE: 12/21/1998
ISSUE DATE:

009914/0650 PAGE 2

LENELL MACKALL, PARALEGAL
ASSIGNMENT DIVISION
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12-30-1999

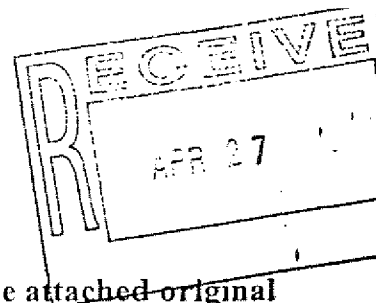


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ET

PATENTS ONLY



To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof:

1. Name of conveying party(ies):

Michael Dickman
J. Bryan Jones

2. Name and address of receiving party(ies):

Genecor International, Inc.
4 Cambridge Place
1870 South Winton Road
Rochester, New York 14618

J. Bryan Jones
1275 Seaforth Crescent
RR 3 Lakefield
Ontario K0L 2H0 Canada

3. Nature of conveyance:

- ☒ Assignment
☐ Merger
☐ Security Agreement
☐ Change of Name
☐ Other: _____

Execution Date(s):

1st (sole) Inventor: March 17, 1999
2nd Inventor: March 15, 1999
3rd Inventor:
4th Inventor:

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date(s) of the application is(are):

1st (sole) Inventor:
2nd Inventor:
3rd Inventor:
4th Inventor:

A. Patent Application No.(s): 60/113,061

B. Patent No.(s):



1043
**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

DECEMBER 29, 1999

PTAS

NIXON PEABODY LLP
MICHAEL L. GOLDMAN, ESQ.
PO BOX 1051
CLINTON SQUARE
ROCHESTER, NY 14603



101203630A

**UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 08/30/1999

REEL/FRAME: 010289/0422
NUMBER OF PAGES: 7

BRIEF: CORRECTIVE ASSIGNMENT TO CORRECT THE SPELLING OF THE RECEIVING PARTY THAT WAS PREVIOUSLY RECORDED ON REEL 9914, FRAME 0650.

ASSIGNOR:
DICKMAN, MICHAEL

DOC DATE: 03/17/1999

ASSIGNOR:
JONES, J. BRYAN

DOC DATE: 03/15/1999

ASSIGNEE:
GENENCOR INTERNATIONAL, INC.
1870 SOUTH WINTON ROAD
4 CAMBRIDGE PLACE
ROCHESTER, NEW YORK 14618

RECEIVED

JAN 11 2000

MAJESTIC, PARSONS,
SIEBERT & HSUE

ASSIGNEE:
JONES, J. BRYAN
1275 SEAFORTH CRESCENT
RR 3 LAKEFIELD
ONTARIO, CANADA K0L 2H0

010289/0422 PAGE 2

SERIAL NUMBER: 60113061
PATENT NUMBER:

FILING DATE: 12/21/1998
ISSUE DATE:

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



UNITED STATES
PATENT AND
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Bingham McCutchen
IP Docket Dept.

JUNE 24, 2002

PTAS

MCCUTHCHEN, DOYLE, BROWN & ENERSEN, LLP
MICHAEL J. SHUSTER, PH.D.
THREE EMBARCADERO CENTER, 18TH FLOOR
SAN FRANCISCO, CALIFORNIA 94111

Chief Information Officer
Washington, DC 20231
www.uspto.gov



102071416A

UNITED STATES PATENT AND TRADEMARK OFFICE
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23623-7043

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RECORDATION DATE: 04/15/2002

REEL/FRAME: 012820/0894

NUMBER OF PAGES: 12

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

GENECOR INTERNATIONAL, INC.

DOC DATE: 02/08/2002

ASSIGNOR:

JONES, J. BRYAN

DOC DATE: 02/14/2002

ASSIGNOR:

LLOYD, RICHARD C.

DOC DATE: 03/14/2002

ASSIGNEE:

GOVERNING COUNCIL OF THE
UNIVERSITY OF TORONTO, THE
27 KING'S COLLEGE CIRCLE
TORONTO, ONTARIO, CANADA M5S 1A1

SERIAL NUMBER: 09436513

FILING DATE: 11/09/1999

PATENT NUMBER:

ISSUE DATE:

012820/0894 PAGE 2

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

4-29-2002

Docket No. 23623-7043
CG 566-2

102071416

FORM PTO-1595		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. Department of Commerce Patent and Trademark Office	
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof:					
1. Name and address of conveying party(ies): <div style="text-align: right; font-size: 1.5em; margin-right: 20px;">4.15.02</div> Name: <u>Genencor International, Inc.</u> Address: <u>4 Cambridge Place</u> <u>1870 South Winton Road</u> <u>Rochester, New York 14618</u> <input type="checkbox"/> Individual <input type="checkbox"/> Association <input type="checkbox"/> General Partnership <input type="checkbox"/> Limited Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Other: Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			2. Name and address of receiving party(ies): Name: <u>The Governing Council of the University of Toronto</u> Address: <u>27 King's College Circle</u> <u>Toronto, Ontario</u> <u>Canada M5S 1A1</u> Additional name(s) of receiving party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: <u>February 8, 2002, February 14, 2002, March 14, 2002, and March 5, 2002</u>					
4. Application Number(s) or Patent Number(s) If this document is being filed together with a new application, the execution date of the application is:					
A. Patent Application Number(s): <u>09/436,513</u> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			B. Patent Number(s): _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning this document should be mailed: Name: <u>Michael J. Shuster, Ph.D.</u> Address: <u>McCutchen, Doyle, Brown & Enersen, LLP</u> <u>Three Embarcadero Center, 18th Floor</u> <u>San Francisco, California 94111</u>			6. Total number of applications and patents involved: <u>-1-</u> 7. Total fee (37 C.F.R. § 3.41)(\$40.00 per assignment): <u>\$40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to Deposit Account No. <u>50-1193</u> <input checked="" type="checkbox"/> The Commissioner is authorized to charge underpayment of any fees or credit any overpayment to Deposit Account No. <u>50-1193</u> .		
DO NOT USE THIS SPACE					
9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> <u>Michael J. Shuster, Ph.D., Reg. No. 41,310</u> Name Registration Number </div> <div style="text-align: center;"> Signature </div> <div style="text-align: center;"> <u>April 3, 2002</u> Date </div> </div> <div style="text-align: right; margin-top: 10px;"> Total number of pages including cover sheet, attachments and document: <u>12</u> </div>					
Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231					

04/26/2002 DBYRNE 00000201 501193 09436513
 01 FC:581 40.00 CH

Additional Conveying Parties from page 1

J. Bryan Jones
1275 Seaforth Crescent
Lakefield Ontario
Canada K0L 2H0

Richard C. Lloyd
108 High Street
Chesterton, Cambridge
United Kingdom, CB4 1NW

☒ Individuals ☐ Association
☐ General Partnership ☐ Limited Partnership
☐ Corporation ☐ Other:

AMENDED AND RESTATED ASSIGNMENT

Whereas the parties to this assignment acknowledge that the language of their original assignment agreement was not reflective of the parties' original intentions, whereas the parties intend to amend, restate, and supercede their prior assignment, and whereas the parties acknowledge that this Amended and Restated Assignment document is intended to reflect, clarify and correctly state the parties' original intentions, with respect to the invention described below, the parties agree as follows:

For good and valuable consideration, receipt of which is hereby acknowledged, Genencor International Inc., a Delaware corporation, having a place of business at 4 Cambridge Place, 1870 South Winton Road, Rochester, New York, having acquired by prior assignments from application 60/107,758 recorded, along with a correction to the address of the Receiving Party, as of February 26, 1999 at Reel 009785, Frames 0991-0994 and from application 60/113,061 recorded as of April 27, 1999 at Reel 009914, Frames 0650-0653, said assignment having been corrected to correct the spelling of the Receiving Party, said correction recorded as of August 30, 1999 at Reel 010289, Frames 0422-0428 a right, title and interest in an invention of J. Bryan Jones and Michael Dickman entitled:

CHEMICALLY MODIFIED MUTANT SERINE HYDROLASES SHOW IMPROVED CATALYTIC ACTIVITY AND CHIRAL SELECTIVITY

for which a United States patent application has been executed and filed on November 9, 1999, and which application now has Serial No. 09/436,513, and having acquired a right, title and interest in all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications, and having acquired the right to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from J. Bryan Jones and Michael Dickman.

Now, the parties agree to amend, restate and supercede in their entirety the prior assignments, and in view of the above premises and effective as of the execution dates of those prior assignments, Genencor International Inc. hereby sells, assigns and transfers to the Governing Council of the University of Toronto, its successors and assigns, the right, title and interest it acquired by virtue of the above-referenced assignment recorded, along with a correction to the address of the Receiving Party, as of February 26, 1999 at Reel 009785, Frames 0991-0994 from application 60/107,758 from J. Bryan Jones, and by virtue of the assignment recorded as of April 27, 1999 at Reel 009914, Frames 0650-0653, said assignment having been corrected to correct the spelling of the Receiving Party, said correction recorded as of August 30, 1999 at Reel 010289, Frames 0422-0428 from application 60/113,061 from J. Bryan Jones and by Michael Dickman as inventors, throughout the world in said invention of J. Bryan Jones and Michael Dickman entitled:

**CHEMICALLY MODIFIED MUTANT SERINE HYDROLASES SHOW IMPROVED CATALYTIC
ACTIVITY AND CHIRAL SELECTIVITY**

for which a United States patent application has been executed and filed on November 9, 1999, and which application now has Serial No. 09/436,513, and in all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; the Governing Council of the University of Toronto authorizes Genencor International Inc., as licensee, to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from the Governing Council of the University of Toronto, and agrees to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid Genencor International Inc., its successors, assigns and nominees, at its request and expense, in obtaining and enforcing patents for said invention in all countries.

/ / /

21393396.1/23623-7043

Genencor International Inc. warrants, covenants and represents that it has not heretofore granted any license, right or privilege with respect to said application, invention or improvements, or in any way encumbered the same, and that it has the full right to make this assignment.

Executed this _____ day of _____, 20____.

By: _____

Title: _____

State of _____)

) ss.

County of _____)

Executed this 14 day of February, 2002.

By: 

Title: Peter B. Munsche
Assistant Vice-President
Technology Transfer
University of Toronto

~~Province~~
~~State~~ of Ontario)

) ss.

County of Canada)

AMENDED AND RESTATED ASSIGNMENT

Whereas the parties to this assignment acknowledge that the language of their original assignment agreement was not reflective of the parties' original intentions, whereas the parties intend to amend, restate, and supercede their prior assignment, and whereas the parties acknowledge that this Amended and Restated Assignment document is intended to reflect, clarify and correctly state the parties' original intentions, with respect to the invention described below, the parties agree as follows:

For good and valuable consideration, receipt of which is hereby acknowledged, J. Bryan Jones, a citizen of Canada, residing at 1275 Seaforth Crescent, RR3 Lakefield, Ontario Canada K0L 2H0, having acquired by prior assignment from application 60/107,758 which assignment was recorded, along with a correction to the address of the Receiving Party, as of February 26, 1999 at Reel 009785, Frames 0991-0994 and from application 60/113,061 which assignment was recorded as of April 27, 1999 at Reel 009914, Frames 0650-0653 and said assignment having been corrected to correct the spelling of the Receiving Party, said correction recorded as of August 30, 1999 at Reel 010289, Frames 0422-0428 a right, title and interest in an invention of J. Bryan Jones and Michael Dickman entitled:

CHEMICALLY MODIFIED MUTANT SERINE HYDROLASES SHOW IMPROVED CATALYTIC ACTIVITY AND CHIRAL SELECTIVITY

for which a United States patent application has been executed and filed on November 9, 1999, and which application now has Serial No. 09/436,513, and having acquired a right, title and interest in all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications, and having acquired the right to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from J. Bryan Jones and Michael Dickman.

Now, the parties agree to amend, restate and supercede in their entirety the prior assignments, and in view of the above premises and effective as of the execution dates of those prior assignments, J. Bryan Jones hereby sells, assigns and transfers to the Governing Council of the University of Toronto, its successors and assigns, the right, title and interest he

acquired by virtue of the above-referenced assignment recorded, along with a correction to the address of the Receiving Party, as of February 26, 1999 at Reel 009785, Frames 0991-0994 from application 60/107,758 and J. Bryan Jones hereby sells, assigns and transfers to the Governing Council of the University of Toronto, its successors and assigns, the right, title and interest he acquired by virtue of the above-referenced assignment recorded as of April 27, 1999 at Reel 009914, Frames 0650-0653, said assignment having been corrected to correct the spelling of the Receiving Party, said correction recorded as of August 30, 1999 at Reel 010289, Frames 0422-0428 from application 60/113,061 from J. Bryan Jones and Michael Dickman as inventors, throughout the world in said invention entitled:

**CHEMICALLY MODIFIED MUTANT SERINE HYDROLASES SHOW IMPROVED CATALYTIC
ACTIVITY AND CHIRAL SELECTIVITY**

for which a United States patent application has been executed and filed on November 9, 1999, and which application now has Serial No. 09/436,513, and in all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; the Governing Council of the University of Toronto authorizes Genencor International Inc., as licensee, to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from the Governing Council of the University of Toronto, and agrees to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid Genencor International Inc., its successors, assigns and nominees, at its request and expense, in obtaining and enforcing patents for said invention in all countries.

///

J. Bryan Jones warrants, covenants and represents that he has not heretofore granted any license, right or privilege with respect to said application, invention or improvements, or in any way encumbered the same, and that he has the full right to make this assignment.

Executed this 8 day of February, 2002

By: _____

Title: _____

State of Ontario, Canada)
) ss.
County of _____)

Executed this _____ day of _____, 20____.

By: _____

Title: _____

State of _____)
) ss.
County of _____)

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned, inventor:

Richard C. Lloyd

Who has created a certain invention for which an application for United States Letters Patent entitled **Chemically Modified Mutant Serine Hydrolases Show Improved Catalytic Activity and Chiral Selectivity** has been executed and

- ☐ is filed herewith;
- ☒ was filed in the U.S. Patent and Trademark Office on **November 9, 1999** and assigned Serial Number **09/436,513**;

Does hereby sell, assign and transfer to **The Governing Council of the University of Toronto, a corporation continued by the provisions of subsection 2(1) of the University of Toronto Act, S.O. 1971, c. 56 (as amended by S.O. 1978, c. 88)**, having a place of business at **27 King's College Circle, Toronto, Ontario, Canada M5S 1A1**, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefore in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possession and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agrees that **The Governing Council of the University of Toronto**, hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, successors, assigns, or legal representatives;

Docket No. 23623-7043

GC 566-2


The terms "Application" and "Application for Letters Patent" as used herein include both provisional and non-provisional applications;

Inventor hereby authorizes the above-mentioned Assignee or its legal representative to insert in this instrument the filing date and serial number of said Application or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document; and

Covenants with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same has herein expressed is possessed by the undersigned.

IN THE TESTIMONY WHEREOF I have hereunto set my signature on the date indicated below.

RICHARD C. LLOYD



Date: 05 MARCH 2002

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**REVOCATION OF POWER OF
ATTORNEY WITH
NEW POWER OF ATTORNEY
AND
CHANGE OF CORRESPONDENCE ADDRESS**

Application Number	10/791,093
Filing Date	March 1, 2004
First Named Inventor	J. Bryan Jones
Art Unit	1614
Examiner Name	William Moore
Attorney Docket Number	GC566-2-C1

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint the practitioners associated with the Customer Number: 05100

☒ Please change the correspondence address for the above-identified application to:

☒ The address associated with
Customer Number:

05100

OR

☐ Firm or
Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the:

☒ Applicant/Inventor.

☐ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Signature

Name

Elena E. Quertermous

Date

September 26, 2007

Telephone

(650) 846-7636

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.